

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.-41. Canceled.

42. (Currently Amended) A method of inhibiting the growth of ~~potentially~~ pathogenic bacteria, virus or fungi in a body cavity or orifice of a subject suffering from infectious or inflammatory conditions ~~caused by bacteria, virus or fungi~~, comprising administering to a subject in need thereof an effective amount of a combination of lactic acid bacteria comprising a first component (a) consisting of at least one strain of H<sub>2</sub>O<sub>2</sub>-producing lactic acid bacteria, and a second component (b) consisting of at least one strain of arginine-utilizing lactic acid bacteria, wherein component (a) is selected from the group consisting of the strains of the species *Lactobacillus crispatus*, *Lactobacillus salivarius* and *Lactobacillus casei*, and component (b) is selected from the group consisting of the strains of the species *Lactobacillus brevis* DSM 11988, a non-H<sub>2</sub>O<sub>2</sub>-producing *Lactobacillus gasseri* and *Lactobacillus fermentum*, provided that when component (a) is *Lactobacillus casei*, component (b) is not *Lactobacillus gasseri* or *Lactobacillus fermentum*, and when component (a) is *Lactobacillus crispatus*, component (b) is not *Lactobacillus fermentum*.

43. (Currently Amended) A method of inhibiting the growth of ~~potentially~~ pathogenic bacteria, virus or fungi in a body cavity or orifice of a subject suffering from infectious or inflammatory conditions ~~caused by bacteria, virus or fungi~~, comprising administering to a subject in need thereof an effective amount of a combination of lactic acid bacteria comprising a first component (a) consisting of at least one strain of H<sub>2</sub>O<sub>2</sub>-producing lactic acid bacteria, and a second component (b) consisting of at least one strain of arginine-utilizing lactic acid bacteria,

wherein component (a) is selected from the group consisting of the strains of the species

*Lactobacillus crispatus*, *Lactobacillus salivarius* and *Lactobacillus casei*, and component (b) is *Lactobacillus brevis* DSM 11988, and optionally a non  $H_2O_2$ -producing *Lactobacillus gasseri* and *Lactobacillus fermentum*.

44. (Currently Amended) The method according to claim 42, in which the strain of lactic acid bacteria in component (b) is biologically pure *Lactobacillus brevis* DSM 11988, or mutants or derivatives thereof.

45. (Previously Presented) The method according to claim 42, in which the ratio of the number of bacteria in component (a) to the number of bacteria in component (b) is from 1:100 to 100 : 1.

46. (Previously Presented) The method according to claim 45, in which the said ratio is from 1 : 5 to 5 : 1.

47. (Previously Presented) The method according to Claim 46, in which the said ratio is from 1: 1.

48. (Previously Presented) The method according to claim 42, comprising from  $1 \times 10^2$  to  $5 \times 10^{11}$  bacteria of component (a) and from  $1 \times 10^2$  to  $5 \times 10^{11}$  bacteria of component (b).

49. (Previously Presented) The method according to claim 48, comprising from  $1 \times 10^9$  bacteria of component (a) and from  $3 \times 10^9$  bacteria of component (b).

50. (Previously Presented) The method according to Claim 42, wherein there is also administered at least one other strain of lactic acid bacteria selected from the group consisting of *Lactobacillus acidophilus*, *Lactobacillus buchneri*, *Lactobacillus catenaforme*, *Lactobacillus cellobiosus*, *Lactobacillus curvatus*, *Lactobacillus delbrueckii*, *Lactobacillus jensenii*, *Lactobacillus leichmannii*, *Lactobacillus minutus*, *Lactobacillus plantarum*, *Bifidobacterium*

*adolescentis*, *Bifidobacterium angulatum*, *Bifidobacterium bifidum*, *Bifidobacterium breve*,  
*Bifidobacterium catenulatum*, *Bifidobacterium dentium*, *Bifidobacterium eriksonii*,  
*Bifidobacterium infantis*, *Bifidobacterium longum*, *Bifidobacterium plantarum* and *Streptococcus*  
*thermophilus*.

51. (Previously Presented) The method according to Claim 42, wherein there are also administered vitamins, quaternary ammonium bases, mineral salts, antioxidants and anti-plaque agents with component (a) and component (b).

52. (Previously Presented) The method according to claim 42, wherein component (a) is *Lactobacillus crispatus* and component (b) is *Lactobacillus fermentum*.

53. (Previously Presented) The method according to claim 42, wherein component (a) is *Lactobacillus salivarius* and component (b) is *Lactobacillus fermentum*.

54. (Previously Presented) The method according to claim 52, wherein the ratio of the number of bacteria in component (a) to the number of bacteria in component (b) is 1:1.

55. (Previously Presented) The method according to claim 42, in which the infections and inflammatory conditions are selected from the group consisting of gingivitis, periodontitis, mucositis, stomatitis, Behçet's syndrome, diakeratosis of the oral cavity, glossitis, sore throat, sialadenitis, sialolithiasis, pemphigus, *Lichen planus*, Sjögren's syndrome, vaginosis, vaginitis, urethritis, prostatitis, proctitis, otitis, conjunctivitis, rhinitis, sinusitis, leucoplakia, aphthae, herpes, and infections of *Helicobacter pylori* in the oral cavity.

56. (Previously Presented) The method according to claim 42 wherein the combination is applied to the subject's mouth, vagina, urethra, nose, eyes or ears.

57. (Previously Presented) The method according to claim 42, in which the combination is applied to an oral cavity as a deodorant, anti-inflammatory, anti-caries or anti-plaque agent.